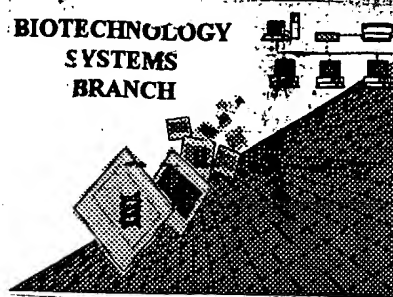


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/715,763

Source: O/PE

Date Processed by STIC: 12/1/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/715,763

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 ☐ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES) Sequence(s) _____ are missing this mandatory field or its response.
- 12 ☐ Use of <220>Feature (NEW RULES) Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,763

DATE: 12/01/2000
TIME: 12:13:01

Input Set : A:\SEQLISTCMX-001.1.txt
Output Set: N:\CRF3\12012000\I715763.raw

Does Not Comply
Corrected Diskette Needed

OK 3 <110> APPLICANT: Shashoua, Victor
5 <120> TITLE OF INVENTION: Compositions and Methods for Counteracting Effects
6 of Reactive Oxygen Species and Free Radicals
8 <130> FILE REFERENCE: CMX-001.1 US
10 <140> CURRENT APPLICATION NUMBER: US/09/715,763
10 <141> CURRENT FILING DATE: 2000-11-17
10 <150> PRIOR APPLICATION NUMBER: 60/166,381
11 <151> PRIOR FILING DATE: 1999-11-18
13 <160> NUMBER OF SEQ ID NOS: 36
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 12
19 <212> TYPE: PRT
20 <213> ORGANISM: synthetic
22 <220> FEATURE:
23 <221> NAME/KEY: PEPTIDE
24 <222> LOCATION: (1)..(12)
26 <400> SEQUENCE: 1
28 Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln
29 1 5 10
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 6
33 <212> TYPE: PRT
34 <213> ORGANISM: synthetic
36 <220> FEATURE:
37 <221> NAME/KEY: PEPTIDE
38 <222> LOCATION: (1)..(6)
40 <400> SEQUENCE: 2
42 Gln Thr Leu Gln Phe Arg
43 1 5
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 7
47 <212> TYPE: PRT
48 <213> ORGANISM: synthetic
50 <220> FEATURE:
51 <221> NAME/KEY: PEPTIDE
52 <222> LOCATION: (1)..(7)
53 <223> OTHER INFORMATION: amino acid positions designated Xaa may be
54 varied to form alternative peptide compounds
55 of the invention, as explained in the disclosure
OK 58 <400> SEQUENCE: 3
60 Xaa Gly Xaa Xaa Xaa Xaa Xaa
61 1 5
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 5
65 <212> TYPE: PRT
66 <213> ORGANISM: synthetic

Per 1,823 of new Sequence Rules, the only valid
responses are: Unknown, Artificial Sequence, or
Genus/species (scientific name)

(give source of genetic material
in C2207-C2237
section - see circled
portion of item 12 on
Erra Summary Sheet)

global erra

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/715,763

DATE: 12/01/2000

TIME: 12:13:01

Input Set : A:\SEQLISTCMX-001.1.txt

Output Set: N:\CRF3\12012000\I715763.raw

68 <220> FEATURE:
69 <221> NAME/KEY: PEPTIDE
70 <222> LOCATION: (1)..(5)
72 <400> SEQUENCE: 1
74 Asp Gly Asp Gly Asp
75 1 5
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 6
79 <212> TYPE: PRT
80 <213> ORGANISM: synthetic
82 <220> FEATURE:
83 <221> NAME/KEY: PEPTIDE
84 <222> LOCATION: (1)..(6)
86 <400> SEQUENCE: 5
88 Asp Gly Asp Gly Phe Ala
89 1 5
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 7
93 <212> TYPE: PRT
94 <213> ORGANISM: synthetic
96 <220> FEATURE:
97 <221> NAME/KEY: PEPTIDE
98 <222> LOCATION: (1)..(7)
100 <400> SEQUENCE: 6
102 Asp Gly Asp Gly Asp Phe Ala
103 1 5
105 <210> SEQ ID NO: 7
106 <211> LENGTH: 7
107 <212> TYPE: PRT
108 <213> ORGANISM: synthetic
110 <220> FEATURE:
111 <221> NAME/KEY: PEPTIDE
112 <222> LOCATION: (1)..(7)
114 <400> SEQUENCE: 7
116 Asp Gly Asn Gly Asp Phe Ala
117 1 5
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 7
121 <212> TYPE: PRT
122 <213> ORGANISM: synthetic
124 <220> FEATURE:
125 <221> NAME/KEY: PEPTIDE
126 <222> LOCATION: (1)..(7)
128 <400> SEQUENCE: 8
130 Asn Gly Asn Gly Asp Phe Ala
131 1 5
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 7
135 <212> TYPE: PRT

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/715,763

DATE: 12/01/2000
 TIME: 12:13:01

Input Set : A:\SEQLISTCMX-001.1.txt
 Output Set: N:\CRF3\12012000\I715763.raw

136 <213> ORGANISM: synthetic
 138 <220> FEATURE:
 139 <221> NAME/KEY: PEPTIDE
 140 <222> LOCATION: (1)..(7)
 142 <400> SEQUENCE: 9
 144 Asn Gly Asp Gly Asp Phe Ala
 145 1 5
 147 <210> SEQ ID NO: 10
 148 <211> LENGTH: 8
 149 <212> TYPE: PRT
 150 <213> ORGANISM: synthetic
 152 <220> FEATURE:
 153 <221> NAME/KEY: PEPTIDE
 154 <222> LOCATION: (1)..(8)
 155 <223> OTHER INFORMATION: amino acid positions designated Xaa may be
 156 varied to form alternative peptide compounds
 157 of the invention, as explained in the disclosure
 160 <400> SEQUENCE: 10
 162 Xaa Xaa Met Thr Leu Thr Gln Pro
 163 1 5
 165 <210> SEQ ID NO: 11
 166 <211> LENGTH: 6
 167 <212> TYPE: PRT
 168 <213> ORGANISM: synthetic
 170 <220> FEATURE:
 171 <221> NAME/KEY: PEPTIDE
 172 <222> LOCATION: (1)..(6)
 174 <400> SEQUENCE: 11
 176 Met Thr Leu Thr Gln Pro
 177 1 5
 179 <210> SEQ ID NO: 12
 180 <211> LENGTH: 8
 181 <212> TYPE: PRT
 182 <213> ORGANISM: synthetic
 184 <220> FEATURE:
 185 <221> NAME/KEY: PEPTIDE
 186 <222> LOCATION: (1)..(8)
 188 <400> SEQUENCE: 12
 190 Ser Lys Met Thr Leu Thr Gln Pro
 191 1 5
 193 <210> SEQ ID NO: 13
 194 <211> LENGTH: 6
 195 <212> TYPE: PRT
 196 <213> ORGANISM: synthetic
 198 <220> FEATURE:
 199 <221> NAME/KEY: PEPTIDE
 200 <222> LOCATION: (1)..(6)
 202 <400> SEQUENCE: 13
 204 Glu Thr Leu Gln Phe Arg

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/715,763

DATE: 12/01/2000

TIME: 12:13:01

Input Set : A:\SEQLISTCMX-001.1.txt

Output Set: N:\CRF3\12012000\I715763.raw

205 1 5
207 <210> SEQ ID NO: 14
208 <211> LENGTH: 8
209 <212> TYPE: PRT
210 <213> ORGANISM: synthetic
212 <220> FEATURE:
213 <221> NAME/KEY: PEPTIDE
214 <222> LOCATION: (1)..(8)
216 <400> SEQUENCE: 14
218 Gln Tyr Ser Ile Gly Gly Pro Gln
219 1 5
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 8
223 <212> TYPE: PRT
224 <213> ORGANISM: synthetic
226 <220> FEATURE:
227 <221> NAME/KEY: PEPTIDE
228 <222> LOCATION: (1)..(8)
230 <400> SEQUENCE: 15
232 Ser Asp Arg Ser Ala Arg Ser Tyr
233 1 5
235 <210> SEQ ID NO: 16
236 <211> LENGTH: 12
237 <212> TYPE: PRT
238 <213> ORGANISM: synthetic
240 <220> FEATURE:
241 <221> NAME/KEY: PEPTIDE
242 <222> LOCATION: (1)..(12)
244 <400> SEQUENCE: 16
246 Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
247 1 5 10
249 <210> SEQ ID NO: 17
250 <211> LENGTH: 5
251 <212> TYPE: PRT
252 <213> ORGANISM: synthetic
254 <220> FEATURE:
255 <221> NAME/KEY: PEPTIDE
256 <222> LOCATION: (1)..(5)
258 <400> SEQUENCE: 17
260 Asn Gly Asn Gly Asp
261 1 5
263 <210> SEQ ID NO: 18
264 <211> LENGTH: 5
265 <212> TYPE: PRT
266 <213> ORGANISM: synthetic
268 <220> FEATURE:
269 <221> NAME/KEY: PEPTIDE
270 <222> LOCATION: (1)..(5)
272 <400> SEQUENCE: 18

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,763

DATE: 12/01/2000
TIME: 12:13:01

Input Set : A:\SEQLISTCMX-001.1.txt
Output Set: N:\CRF3\12012000\I715763.raw

274 Asp Gly Asn Gly Asp
275 1 5
277 <210> SEQ ID NO: 19
278 <211> LENGTH: 5
279 <212> TYPE: PRT
280 <213> ORGANISM: synthetic
282 <220> FEATURE:
283 <221> NAME/KEY: PEPTIDE
284 <222> LOCATION: (1)..(5)
286 <400> SEQUENCE: 19
288 Asn Gly Asp Gly Asp
289 1 5
291 <210> SEQ ID NO: 20
292 <211> LENGTH: 4
293 <212> TYPE: PRT
294 <213> ORGANISM: synthetic
296 <220> FEATURE:
297 <221> NAME/KEY: PEPTIDE
298 <222> LOCATION: (1)..(4)
300 <400> SEQUENCE: 20
302 Asn Gly Asp Gly
303 1
305 <210> SEQ ID NO: 21
306 <211> LENGTH: 6
307 <212> TYPE: PRT
308 <213> ORGANISM: synthetic
310 <220> FEATURE:
311 <221> NAME/KEY: PEPTIDE
312 <222> LOCATION: (1)..(6)
314 <400> SEQUENCE: 21
316 Asn Gly Asn Gly Phe Ala
317 1 5
319 <210> SEQ ID NO: 22
320 <211> LENGTH: 6
321 <212> TYPE: PRT
322 <213> ORGANISM: synthetic
324 <220> FEATURE:
325 <221> NAME/KEY: PEPTIDE
326 <222> LOCATION: (1)..(6)
328 <400> SEQUENCE: 22
330 Asp Gly Asn Gly Phe Ala
331 1 5
333 <210> SEQ ID NO: 23
334 <211> LENGTH: 6
335 <212> TYPE: PRT
336 <213> ORGANISM: synthetic
338 <220> FEATURE:
339 <221> NAME/KEY: PEPTIDE
340 <222> LOCATION: (1)..(6)

*Please edit subsequent sequences
containing this error.*

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/715,763

DATE: 12/01/2000
TIME: 12:13:02

Input Set : A:\SEQLISTCMX-001.1.txt
Output Set: N:\CRF3\12012000\I715763.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:423 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:436 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:449 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:462 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:488 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:518 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36